## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's		nt's file reference	FOR FURTHER AC	TION See N	lotification	n of Transmittal of International amination Report (Form PCT/IPEA/416)		
International application No. PCT/ES 02/00279			International filing date (d 07.06.2002	iay/month/year)		Priority date (day/month/year)		
International Patent Classification (IPC) or both national classification and IPC C08F214/18								
Applicant DAVID FUEL CELL COMPONENTS, S.L. et al.								
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>								
2. Thi	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
Ø	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
The	These annexes consist of a total of 2 sheets.							
3. Thi			lating to the following ite	ms:	•			
i	Basis of the opinion							
11								
}				inion with regard to novelty, inventive step and industrial applicability				
V V	<ul> <li>Lack of unity of invention</li> <li>Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> </ul>							
VI.		Certain documents cit						
VII								
VII		Certain observations o	on the international applic	cation				
Date of submission of the demand			Date of completion of this report					
07.01.2004			14.09.2004					
Name and	mailin	g address of the internation	al	Authorized Off	icer	chat Pelanon.		
preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Wirth, M Telephone No	+49 89 2	2399-8595			



International application No.

PCT/ES 02/00279

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I.	Dasis	of the	1 epot 6

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages								
	1-19	Э	filed with the demand						
	Cla								
	Claims, Numbers		received on 31.08.2004 with letter of 27.08.2004						
1-10									
2	With lang	n regard to the langua guage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.						
	The	nese elements were available or furnished to this Authority in the following language: , which is:							
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publication of the international application (under Rule 48.3(b)).							
•		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	With	n regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.						
		furnished subsequen	tly to this Authority in computer readable form						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the listing has been furnished	ne information recorded in computer readable form is identical to the written sequence shed.						
1.	The	esulted in the cancellation of:							
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have o beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement she report.)	eet containing such amendments must be referred to under item 1 and annexed to this						
3.	Add	itional observations, if	necessary:						
	Form	PCT/IPEA/409 (January 2	2004)						





## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/ES 02/00279

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

πs

No: Claims

Inventive step (IS)

Yes: Claims

1-10

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims No: Claims 1-10

2. Citations and explanations

see separate sheet

Form PCT/PEA/409 (January 2004)



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## **EXAMINATION REPORT - SEPARATE SHEET**

## Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-A-4151053

D2: JP-6234816-A,1-1994-307652,19/38,,,

D3: JP-9188795-A,1-1997-420646,19/39,,,

D4: US-A-4329434

D5: ES-A-2154231

D6: EP-A-0345964

2. Novelty and inventive step (Art. 33(2) and (3) PCT).

D1, D2, D3 disclose the copolymerization of TFE with a perfluorovinyl ether monomer containing fluorosulfonyl group in a fluorinated organic solvent and in the presence of a radical starter (see passages cited in the search report). In these documents, the polymerization occurs in 1 step: there is no previously synthesized dispersion introduced before starting the polymerization. Claim 1-10 are therefore novel (Art 33(2) PCT.

The applicant demonstrated that the introduction of the previously synthesized dispersion enables, inter alia to lower the degree of crystallinity and to improve the thermic stability of the polymer (see also p 6-7 of application). This was not suggested in the available state of the art.

Claims 1-10 are therefore considered inventive (Art 33(3) PCT).